

1050000000
Forrest Public Well #3
ILD 981960818
Superfund - HRS

R
MAY 2 1988

NO
RE-2
115419

566361 - *Forrest Public Well #3*

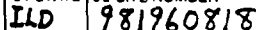
EPA		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		IDENTIFICATION 01 STATE 02 SITE NUMBER	
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Forrest Public Well #3		T26N-R7E, 2650 ft S and 2335 ft W of NE corner Sec 16			
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE
Forrest		IL	61741	Livingston	105
09 COORDINATES		08 DIST			
LATITUDE 40 44 20.0		LONGITUDE 088 24 05.0			
10 DIRECTIONS TO SITE (Starting from nearest public road)		Forrest South Quadrangle			
Go South on the first road West of the railroad tracks. At the point where the road ends, the well is located East of the Railroad tracks. Well #3 is the far East building.					
III. RESPONSIBLE PARTIES					
01 OWNER (If known)		02 STREET (Business, mailing, residential)			
Village of Forrest		202 East Krack street			
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
Forrest		IL	61741-9999	(815) 657-8226	
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
Richard Haab - Supt of Public Works		202 East Krack street			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER	
Forrest		IL	61741-9999	(815) 657-8692	
13 TYPE OF OWNERSHIP (Check one)					
<input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL					
<input type="checkbox"/> F. OTHER: _____ <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)					
<input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: _____ <input checked="" type="checkbox"/> C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION		BY (Check all that apply)			
<input checked="" type="checkbox"/> YES DATE 3/31/88		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR			
<input type="checkbox"/> NO		<input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____			
CONTRACTOR NAME(S): _____					
02 SITE STATUS (Check one)		03 YEARS OF OPERATION			
<input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		1926 Present			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED					
Pesticides (Toxic / Persistent)					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION					
Groundwater (Population/Environment) Surface Water (Population/Environment)					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)					
<input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
Richard Haab		Village of Forrest		(815) 657-8692	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Gary L. Reside		IL EPA	Div Land Pollution Control	1217 1782-6760	4/26/88

EPA FORM 2070-12 (7-81)

EPA Region 5 Records Ctr.



324123



I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE

EPA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 981960818

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED 1,854

02 ☒ OBSERVED (DATE 7-1-87)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

Public Well #3 is one of the two wells which supply drinking water to the villages 1,246 residents. In addition, another 160 homes are located within a three mile radius of the site and utilize the same aquifer. Samples collected from the Forrest Public Well #3 on 7-1-87 showed the presence of chlordane.

01 ☒ B SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED Unknown

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

The South Fork of the Vermilion river is located approximately 120 yards South of the well house. This river is used as a recreational area for both fishing and swimming by the people in the surrounding area.

01 ☐ C CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

POTENTIAL

☐ ALLEGED

Unknown

01 ☐ D FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ E DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED 1,246

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

See A and B

01 ☒ F CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: Unknown^(acres)

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

POTENTIAL

☒ ALLEGED

Chlordane is highly persistent^(across) in the environment because it binds tightly to the soil, migrates very slowly, is insoluble in water, and is relatively impervious to chemical and biological breakdown. Residues of chlordane have been known to persist for 10-20 years in the soil.

01 ☒ G DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED 1,854

02 ☒ OBSERVED (DATE 7-1-87)

04 NARRATIVE DESCRIPTION

POTENTIAL

ALLEGED

See A

01 ☐ H WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ I POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED 1,854

02 ☒ OBSERVED (DATE 7-1-84)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

See A and B



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 981960818

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ L. CONTAMINATION OF FOOD CHAIN

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Chlordane accumulates in body fat of living organisms, and can therefore become concentrated in the food chain.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, runoff, standing liquids, leaking drums)

03 POPULATION POTENTIALLY AFFECTED 1246

02 ☒ OBSERVED (DATE: 7-1-87)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

There is no natural sources of chlordane, the fact that it was found in the well water indicates that there is a nearby source of contamination. A July 1, 1987 well head survey conducted by Agency personnel cited three possible sources. A site reconnaissance inspection on 3-31-88 revealed another possible source of contamination.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

On December 3, 1986 components of petroleum products, in particular benzene, toluene, ethylbenzene and xylene, as well as trichloroethylene were detected in samples taken at C+S Standard Service Station in Forrest's public water supply. It was never determined if the contaminants detected were actually in the water of the PWS or were from the soil in which the blow off hydrant was installed. In April, 1986 a rumor of contamination of the Forrest Public water by arsenic from the Hager Wood Preserving Co. caused commotion. Agency sampler failed to show any evidence of problems.

06 TOTAL POPULATION POTENTIALLY AFFECTED: 1,854

IV. COMMENTS

Forrest Public Well #3 was drilled in 1926 to a depth of 104.5 ft. Currently the well supplies water for the Villages 1246 residents, however 160 homes are located within a three mile radius of the site. This would place approximately 1,854 people at risk. On 7-1-87 both Alpha-Chlordane and Gamma-Chlordane were detected in the Villages Well #3. While the levels of contamination are well below the limits of 3ppb, further investigations are warranted.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

United States Geological Survey Topographical Map (Part 3, Sec A, B) Site Reconnaissance 3-31-88 (Part 3, Sec A, B)
Illinois State Water Survey - Public Groundwater Supplies in Livingston County, 1986 (Part 3, Sec A, G)
Farm Chemicals Handbook, 1988 (Part 3, Sec F, L, M)
Ill. Dept of Conservation - Endangered and Threatened Species of Ill., 1981 (Part 3, Sec J, K)
Illinois State Geological Survey - Bulletin 95 - Handbook of Ill. Stratigraphy (Part 3, Sec A, G)
Illinois State Geological Survey - Circular 192 - Water Wells for Farm Supply in Central + Eastern Illinois (Part 3, Sec A, G)

LPC #1050000000 -- Livingston County
Forrest/Public Well #3
ILD981960818

April 26, 1988

EXECUTIVE SUMMARY

The Forrest Public Well #3 is a gravel packed, drift well which was originally drilled for the Wabash Railroad in 1926 and was acquired by the Village in 1961.

The well is located on the southeast corner of the village in a wooded area. Public Well #3 is the easternmost well of the two wells which are on the east side of the railroad tracks. The well is approximately 138 feet east of Well #2. The map coordinates are approximately 2,650 feet south and 2,335 feet west from the northeast corner of Section 10, Township 26 North, Range 7 East.

The #3 well is 104.5 feet deep and is finished in sand and gravel of the Prairie Aquigroup. The well is cased with 30 inch outer pipe from the pump house floor (about 1.5 feet above grade), to a depth of 82 feet. The 12 inch diameter inner casing extends from 1.5 feet above grade to a depth of 84.5 feet followed by 20 feet of 18 inch Layne screen. A gravel wall surrounds the screen. Below the screen are 6 feet of blank casing to a depth of 104.5 feet.

The well house is a one story, wooden frame building with a concrete floor and a composition roof. The dimensions of the building are approximately 8 feet by 8 feet by 15 feet high. There is no floor drain.

Agency samples taken at the Forrest Public Well #3 on July 1, 1987, revealed the presence of both alpha chlordane and gamma chlordane. The concentrations were 0.01 ppb and 0.013 ppb, respectively.

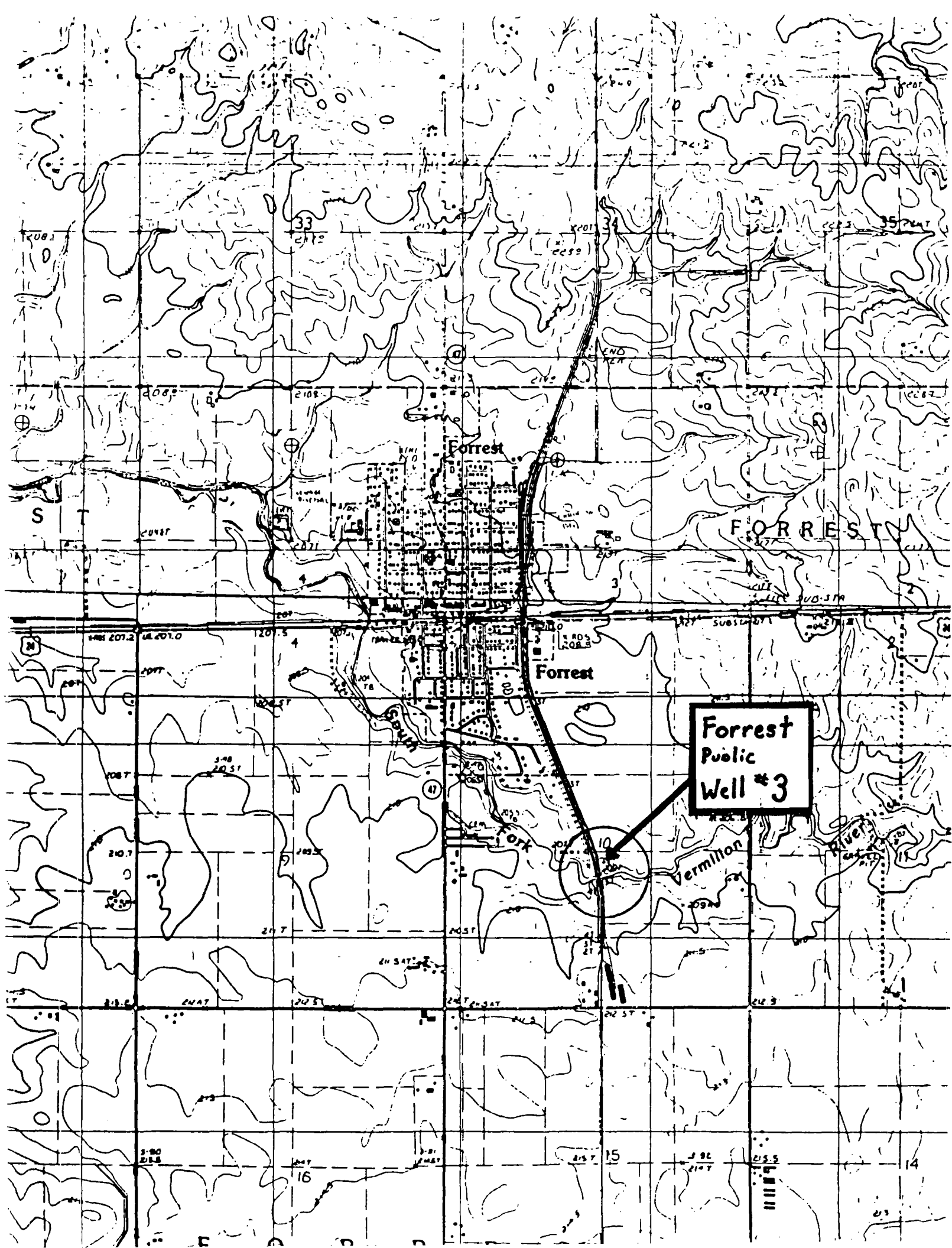
Chlordane is a broad spectrum insecticide which has been used extensively over the past 40 years for termite control, for general insect control in homes and gardens, and for control of soil insects in the production of crops such as corn. Both the uses and production volume of chlordane have decreased substantially as a result of the USEPA's Registration Suspension Notice (40 CFR 34456, August 15, 1975). This suspension forbids the use of chlordane on all food crops and for general insecticidal use around homes and gardens. However, significant commercial use of chlordane for termite control continues.

On July 1, 1987, a well head survey was conducted at the Forrest Public Well #3 by representatives of the Illinois EPA's Field Operations Section. The well head survey cited three potential sources of contamination.

A site reconnaissance was conducted on March 31, 1988 to verify previous information and to gain additional knowledge of the site. During the course of the site reconnaissance, several photographs were taken at the site and the surrounding area, and a site map was drawn which shows the location of the wells and four potential sources of contamination.

This site has been assigned a high priority ranking based upon the Hazard Ranking System (HRS) score. This score is the result of an observed release of chlordane into a public water supply.

GR:tk:4/19/18-1



Forrest Public Well #3
Site Map
Forrest, IL

Asphalt
and SSMS
Scrap Iron



Field

Fields

Dirt Road

Dirt Road

Forrest Public Well #1

Field

Forrest Public Well #2

Forrest Public Well #3

South

Fork

Vermilion River

Woods

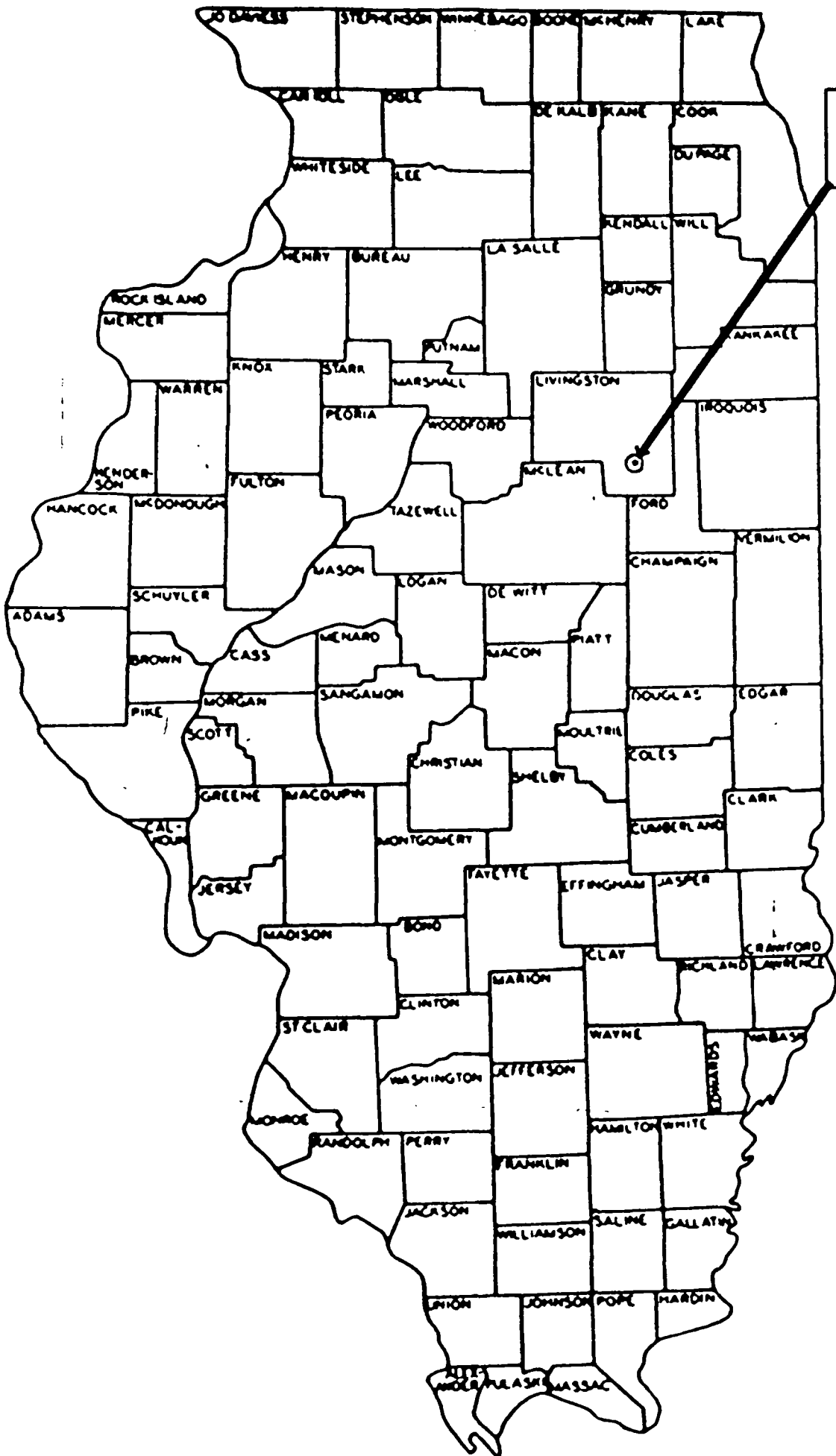
Field

Field

P/S
Ag
chem

Hager
Wood
Preserving

Map Not
to Scale



Forrest Public Well #:
Forrest, IL

Date: March 29, 1988

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N-R7E 1 Forrest

Comments: Photograph taken

toward the East.

Standing with back to Forrest

P.W. #2



Date: March 29, 1988

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N-R7E 1 Forrest

Comments: Photograph taken

toward the East

Standing on Railroad tracks

West of site



Date: 3-29-88

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N- R7E / Forrest

Comments: Photograph taken

toward the Northeast

standing at southwest edge of
clearing.



Date: 3-29-88

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

T26N- R7E Co. Livingston

Forrest Public Well #3 / Forrest

Comments: Photograph taken

toward the West

Standing on Railroad tracks West of Site

Forrest Public Well #1 is on Right hand
side of photo (next to telephone pole)



Date: 3-29-88

Time: 3:30 A.M. (P.M.)

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N - R7E / Forrest

Comments: Photograph taken

toward the South

View of Hager Wood Preserving
South of Site.



Date: 3-29-88

Time: 3:30 A.M. (P.M.)

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N - R7E / Forrest

Comments: Photograph taken

toward the East

View of F.S. Ag Chem factory and
Hager Wood Preserving, located South of
site.



Date: 3-29-88

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N-R7E / Forrest

Comments: Photograph taken

toward the Northeast

View of F.S. Ag Chem factory
located South of site



Date: 3-29-88

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC-ILD981960818

Forrest Public Well #3 Co. Livingston

T26N-R7E / Forrest

Comments: Photograph taken

toward the Northwest

View of Hager wood preserving
factory, south of site



Date: 3-29-88

Time: 3:30 A.M. P.M.

Photograph By:

Gary L. Reside

Location: LPC- ILD981960818

Forrest Public Well #3 Co. Livingston

T26N- R7E 1 Forrest

Comments: Photograph taken

toward the East

View of R. Baker and Sons

Scrap Iron, North of site.



Date: _____

Time: _____ A.M. P.M.

Photograph By:

Location: LPC-

Co.

Comments: Photograph taken

toward the